

AMENDMENTS TO THE CLAIMS

The following is a complete, marked-up listing of revised claims with a status identifier in parentheses, underlined text indicating insertions, and strikethrough and/or double-bracketed text indicating deletions.

LISTING OF CLAIMS

1. (Currently Amended) A ~~computer-readable~~ recording medium storing an executable data structure for managing playback control of a data stream by a reproducing device, comprising:

~~a first area for storing~~ an information file including a first playback indicator for managing a first playback of the ~~computer-readable~~ recording medium, the first playback indicator identifying a ~~navigation command field,~~ separate segment for execution at the first playback of the recording medium, the segment being included in a separate file from the information file, ~~for executing the first playback of the computer-readable medium,~~ the first playback indicator indicating a name of the identified ~~navigation command field~~ segment;

~~a second area for storing~~ the separate file including the identified ~~navigation command field~~ segment, the identified ~~navigation command field~~ segment including at least one navigation command for launching a playlist file, the playlist file being separate from the separate file;

~~a third area for storing the playlist file launched by the navigation command, the playlist file including a playitem representing a playing interval in a clip of ~~the~~ a data stream for the first playback; and~~
~~a fourth area storing a stream file including the data stream.~~

2. (Cancelled)

3. (Current Amended) The ~~computer-readable~~ recording medium of claim 1, wherein the first playback is when the ~~computer-readable~~ recording medium is first read.

4. – 5. (Cancelled)

6. (Currently Amended) The ~~computer-readable~~ recording medium of claim 1, wherein the information file is stored in a main directory, which is a sub-directory of a root directory for the ~~computer-readable~~ recording medium.

7.– 11. (Cancelled)

12. (Currently Amended) A method of recording a data structure for managing playback control of a data stream, comprising:

recording an information file ~~in a first area of the computer-readable~~ on a recording medium, the information file including a first playback indicator for

managing a first playback of the ~~computer-readable~~ recording medium, the first playback indicator identifying a ~~navigation command field, separate segment for execution at the first playback of the recording medium, the segment being included in a separate file~~ from the information file, ~~for executing the first playback of the computer-readable medium,~~ the first playback indicator indicating a name of the identified ~~navigation command field segment~~;

recording the identified ~~navigation command field in a second area of the computer-readable~~ segment in the separate file on the recording medium, the identified ~~navigation command field segment~~ including at least one navigation command for launching a playlist file, the playlist file being separate from the separate file;

recording the playlist file launched by the navigation command ~~in a third area of the computer-readable~~ on the recording medium, the playlist file including a playitem representing a playing interval in a clip of ~~the a~~ a data stream for the first playback; and

recording a stream file including the data stream ~~in a fourth area of the computer-readable~~ on the recording medium.

13. (Currently Amended) A method of reproducing a data structure for managing playback control of a data stream, comprising:

reproducing an information file from a ~~first area of the computer-readable~~ recording medium, the information file including a first playback

indicator for managing a first playback of the ~~computer-readable~~ recording medium, the first playback indicator identifying a ~~navigation command field~~, segment for execution at the first playback of the recording medium, the segment being included in a separate file separate from the information file, ~~for executing the first playback of the computer-readable medium,~~ the first playback indicator indicating a name of the identified ~~navigation command field~~ segment; and

reproducing the separate file including the identified ~~navigation command field in a second area of the computer-readable medium~~ segment, the identified ~~navigation command field~~ segment including at least one navigation command for launching a playlist file, the playlist file being separate from the separate file;

reproducing the playlist file launched by the navigation command ~~from a third area of the computer-readable medium,~~ the playlist file including a playitem representing a playing interval in a clip of ~~the~~ a data stream for the first playback; and

reproducing a stream file including the data stream ~~from a fourth area of the computer-readable medium.~~

14. (Currently Amended) An apparatus for recording a data structure for managing playback control of a ~~computer-readable~~ recording medium, comprising:

a pickup configured to record a stream file including a data stream in a first area of the computer-readable on the recording medium; and

a controller operably coupled to the pickup, ~~configured to control the pickup to record an information file in a second area of the computer-readable on the recording medium~~, the information file including a first playback indicator for managing a first playback of the ~~computer-readable recording medium~~, the first playback indicator identifying a ~~navigation command field for executing the first playback of the computer-readable medium segment for execution at the first playback of the recording medium~~, the segment being included in a separate file from the information file, the first playback indicator indicating a name of the identified ~~navigation command field segment~~;

the controller configured to control the pickup to record the separate file including identified navigation command field in a third area of the computer-readable medium, the identified ~~navigation command field segment~~ segment including at least one navigation command for launching a playlist file, the playlist file being separate from the separate file; and

the controller configured to control the pickup to record the playlist file launched by the navigation command ~~in a fourth area of the computer-readable medium~~, the playlist file including a playitem representing a playing interval in a clip of the data stream for the first playback.

15. (Currently Amended) An apparatus for reproducing a data structure for managing playback control of a ~~computer-readable~~ recording medium, comprising:

a pickup configured to reproduce a stream file including a data stream recorded ~~in a first area of the computer-readable~~ on the recording medium;

a controller operably coupled to the pickup, ~~configured~~ to control the pickup to reproduce an information file from ~~a second area of the computer-readable~~ the recording medium, the information file including a first playback indicator for managing a first playback of the ~~computer-readable~~ recording medium, the first playback indicator identifying a ~~navigation command field for executing the first playback of the computer-readable medium,~~ segment for execution at the first playback of the recording medium, the segment being included in a separate file from the information file the first playback indicator indicating a name of the identified segment;

the controller configured to control the pickup to reproduce the separate file including the identified ~~navigation command field~~ segment from ~~a third area of the computer-readable~~ the recording medium, the identified ~~navigation command field~~ segment including at least one navigation command for launching a playlist file; and

the controller configured to control the pickup to reproduce ~~the playlist launched by the navigation command from a fourth area of the computer-readable medium,~~ the playlist file including a playitem representing a playing interval in a clip of ~~the~~ a data stream for the first playback.

16. (Currently Amended) The ~~computer-readable~~ recording medium of claim 1, wherein the ~~navigation command field~~ segment further includes navigation commands for initializing playback of the data stream and terminating playback of the data stream.

17. (Currently Amended) The method of claim 12, further comprising:

recording navigation commands for initializing playback of the data stream and terminating playback of the data stream in the ~~navigation command field~~ segment.

18. (Currently Amended) The method of claim 13, further comprising:

reproducing navigation commands for initializing playback of the data stream and terminating playback of the data stream from the ~~navigation command field~~ segment.

19. (Currently Amended) The apparatus of claim 14, wherein the controller is further configured to control the pickup to record navigation commands for initializing playback of the data stream and terminating playback of the data stream in the ~~navigation command field~~ segment.

20. (Currently Amended) The apparatus of claim 15, wherein the controller is further configured to control the pickup to reproduce navigation commands for initializing playback of the data stream and terminating playback of the data stream from the ~~navigation command field~~ segment.

21. (New) The apparatus of claim 15, further comprising:

a source depacketizer, configured to depacketize source packets into transport packets;

a demultiplexer, operably coupled to the source depacketizer, configured to demultiplex the transport packets into at least one elementary streams; and

a decoder, operably coupled to the de-multiplexer, configured to decode the elementary stream to an original data stream to be displayed on a display.

22. (New) The apparatus of claim 21, wherein the source depacketizer, the demultiplexer, the decoder, and the controller are part of a video disk play system.

23. (New) The recording medium of claim 1, further comprising:

a clip information file including timing information of the stream file, the clip information file and the stream file are separate files and have a one to one correspondence.

24. (New) The recording medium of claim 1, wherein the playitem is a pair of IN and OUT points corresponding to positions on a time axis of the clip of the data stream.